

## CLAIMS

What is claimed is:

- 1 1. A handheld computing device comprising:  
2 a housing;  
3 a display mounted on the housing; and  
4 an antenna located on the display.
- 1 2. The device of claim 1 wherein the antenna is etched on the display.
- 1 3. The device of claim 1 wherein the antenna is sputter etched on the display.
- 1 4. The device of claim 1 wherein the antenna is embedded under the display.
- 1 5. The device of claim 1 further comprising an amplification circuit coupled  
2 to the antenna.
- 1 6. The device of claim 5 wherein the amplification circuit is mounted on the  
2 display.
- 1 7. The device of claim 6 wherein the amplification circuit is mounted on the  
2 display using chip on glass technology.
- 1 8. The device of claim 1 wherein the antenna is a center-fed dipole antenna.
- 1 9. The device of claim 1 wherein the antenna is an end-fed dipole antenna.
- 1 10. The device of claim 1 wherein the handheld computing device is a  
2 personal computer (PC) tablet.
- 1 11. The device of claim 1 wherein the handheld computing device is a

2 personal digital assistant (PDA).

1 12. A method comprising, mounting an antenna on a display of a computing  
2 apparatus.

1 13. The method of claim 12 wherein mounting the antenna further comprises  
2 etching the antenna on the display.

1 14. The method of claim 12 wherein mounting the antenna further comprises  
2 sputter etching the antenna on the on the display.

1 15. The method of claim 12 wherein mounting the antenna further comprises  
2 embedding under the display.

1 16. The method of claim 1 further comprising coupling an amplification  
2 circuit to the antenna.

1 17. The method of claim 16 wherein coupling the amplification circuit to the  
2 antenna further comprises mounting the amplification circuit on the display.

1 18. The method of claim 17 wherein the amplification circuit is mounted on  
2 the display using chip on glass technology.

1 19. The method of claim 12 wherein the computing apparatus is a personal  
2 computer (PC) tablet.

1 20. The method of claim 12 wherein the computing apparatus is a personal  
2 digital assistant (PDA).

1 21. A handheld computing device comprising:  
2 a display;  
3 a radio frequency (RF) transceiver mounted on the display; and

4 an antenna, coupled to the RF transceiver, mounted on the display.

1 22. The device of claim 21 further comprising a network controller coupled to  
2 the RF transceiver.

1 23. The device of claim 22 wherein the network controller further comprises:  
2 media access layer (MAC) digital signal processor (DSP); and  
3 a baseband DSP coupled to the MAC DSP.

1 24. The device of claim 23 wherein the baseband DSP comprises:  
2 a baseband state machine;  
3 a coding element coupled to the baseband state machine; and  
4 a modulation element coupled to the coding.

1 25. The device of claim 24 wherein the baseband DSP further comprises:  
2 a digital to analog converter (DAC) DSP coupled to the baseband DSP;  
3 and  
4 an analog to digital converter (ADC) DSP coupled to the baseband DSP.

1 26. The device of claim 21 wherein the handheld computing device is a  
2 personal computer (PC) tablet.

1 27. The device of claim 21 wherein the handheld computing device is a  
2 personal digital assistant (PDA).